

# Politecnico di Torino - Dipartimento Energia

## Efficiency Assessment

Test No.:	5020	Petitioner:	Politecnico-Dipartimento Energia
Date:	14/06/2024	Medium:	n ° 2 -
Measurement no.:	1	Manufacturer:	Technostat
Area [m²]:	0.02	Medium type:	
Filter class:		Lot:	FA6900NW
Aerosol:	KCI	Air flow rate through filter:	0.002[m³/s] (7.2[m³/h])
Sampling cycles:	6	Filter air flow resistance [Pa]:	175
Sampling cycle time [s]:	45	Air flow rate entering OPC [cm³/min]:	1000
Dilution factor:	1	Correlation ratio:	989-06/14/2024 3:47:45 PM-Mate
Neutralizer:	Topas EAN 581	OPC:	OPS 3330 ip121
Conditioned / Discharged	No	Test environment:	23 °C /43% /98300Pa
Remarks:	OPC 3330 KCI 20% 121 SLPM, piastra d=160mm, sovrappressione = 50 Pa Neutralizer EA		

Size class [μm]	Particle concentration [#/dm³]		Efficiency [%]	Deviation [+/-]	Uncertainty [+/-]	Meaningful cycles
	Upstream	Downstream				
0.30 - 0.40 μm	663 818	286 572	56.82	0.98	1.03	6
0.40 - 0.55 μm	198 209	57 792	70.87	0.69	0.73	6
0.55 - 0.70 μm	49 969	10 668	78.70	0.58	0.60	6
0.70 - 1.00 μm	39 432	6 045	84.89	0.52	0.55	6
1.00 - 1.30 μm	2 542	211	91.97	1.19	1.25	6
1.30 - 1.60 μm	1 013	48	95.35	1.45	1.53	6
1.60 - 2.20 μm	381	10	97.43	1.06	1.11	6
2.20 - 3.00 μm	61	0	99.64	0.89	0.94	6
3.00 - 4.00 μm	22	0	100.00	0.00	0.00	6
4.00 - 5.50 μm	8	0	100.00	0.00	0.00	6
5.50 - 7.00 μm	1	0	100.00	0.00	0.00	6
7.00 - 10.00 μm	2	0	100.00	0.00	0.00	6
> 10.00 μm	0	0	100.00	0.00	0.00	2

